

## SCALABLE RADIOGRAPHY SYSTEM

# DX-D 400



The DX-D 400 system is a flexible and affordable solution designed for patient comfort and to enhance radiographer confidence. The system is floor-mounted and therefore easy to install, requiring little space and without an expensive ceiling structure. The DX-D 400 has adaptable configurations which can be tailored to the specific needs of your practice. High quality precision hardware helps maximize uptime - important in a busy imaging environment. The robust table with floating table top allows for easy positioning. Safety features, such as double touch foot switches, are built into the product.

### SCALABLE AND AFFORDABLE FLOOR-MOUNTED RADIOGRAPHY SYSTEM.

- Flexible configurations and options
- Floor-mounted for cost-effective and easy installation and use
- Solid precision components offer reliability and help maximum uptime
- Can be combined with Agfa HealthCare CR systems for even greater versatility

## Flexible to meet every need

With its configurations and range of options, the DX-D 400 will fit with many imaging environments. The Analog Manual configuration includes a radiographic floating fixed-height table and an analog tubehead control panel. The Analog Manual (D) version offers an elevating floating table with a maximum weight limit of 350 kg (771 lbs) and a digital tubehead control panel.

Both configurations can be enhanced with options such as a wall stand with a tilting bucky, which provides the operator with versatility for any type of exam.

## Floor-mounted suspension: ease of installation and use

Floor-mounted, the DX-D 400 does not require an expensive ceiling structure and is quick and easy to install. Its compact size (4 x 2 m) means it fits into even limited spaces. Yet, with the touch screen control console (with editable APR, ability to store new edited studies, functional grouping of controls and indicators and six selectable patient sizes including three for children), it still offers complete ease of use. This efficient design adds to its flexibility.

## Solid precision hardware

From the robust radiographic table, to the wall stand, to the tubehead and beyond, the DX-D 400 offers high quality, precision hardware for all its components. By improving uptime and reliability, productivity is increased and reduced maintenance equals a lower total cost of ownership (TCO) and better protection of the hospital or clinic's investment.

## Services & Support

Agfa HealthCare offers service agreement solutions tailored to the individual customer's situation. The service agreements are available in Basic, Advantage and PM Only levels, making lifecycle costs predictable.

A worldwide team of some 1,000 service professionals is at your disposal to provide support at all phases of your project. As an additional service, they can help you customize your examination tree or link RIS protocol codes for an even higher return on investment. Furthermore, this team carries out tasks that go well beyond maintenance, including value added services such as super user training, staff training and software upgrades.

# technical

## SPECIFICATIONS

### PATIENT TABLE (ELEVATING AND NON-ELEVATING)

#### Dimensions

- Height 750 mm (29.53 in)
- Table base length 800 mm (31.5 in)
- Table base width 2200 mm (86.61 in)
- Tabletop width 800 mm (31.5 in)
- Tabletop length 2200 mm (86.61 in)
- Tabletop film distance 85 mm (3.35 in)
- X-ray absorption < 1.0 mm Al (0.04 in) equivalent
- Tabletop travel longitudinal 1100 mm (43.31 in)
- Tabletop travel transverse 240 mm (9.45 in)
- Tabletop material Carbon fiber
- Max. patient weight 350 kg (771 lbs)
- Bucky travel along table access 51 cm (20.08 in)
- Automatic exposure control 3-field solid state sensors
- Grid 1 m (39.37 in)

### PATIENT TABLE (ELEVATING)

#### Vertical travel

- Maximum height 900 mm (35.43 in)
- Minimum height 500 mm (19.69 in)

### FLOOR MOUNTED TUBESTAND

- Tubestand longitudinal travel 2 m (optional 3 m) (78.74 in (optional 118.11 in))

#### Tubestand dimensions

- Height 2370 mm (93.31 in)
- Length of base 2755 mm (108.46 in)
- Width 1267 mm (49.88 in)
- Tube arm extension distance 300 mm (11.8 in)
- Maximum height of X-ray tube focal spot (vertical position) 2020 mm (79.53 in)

#### Distances from X-ray tube focal spot facing the wall stand bucky

- Minimum height 400 mm (15.75 in)
- Maximum height 1900 mm (74.8 in)
- Column longitudinal motion 2010 mm (79.13 in)
- Rotation of column with respect to its vertical axis (rotation may be limited by cables)  $\pm 180^\circ$
- Rotation of Tube-Collimator Assembly with respect to its transverse axis (rotation may be limited by cables)  $\pm 150^\circ$

**COLLIMATORS**

- Inherent filtration 2 mm aluminum equivalent
- Full field light localizer 200 lx
- Additional filtration 1 mm Al + 0.1 mm Cu  
1 mm Al + 0.2 mm Cu  
2 mm Al or 1 mm Al
- Rotation up to maximum  
 $\pm 90^\circ$

**WALL STAND****Dimensions**

- Height 2235 mm (87.99 in)
- Width 620 mm (24.41 in)
- Depth 345 mm (13.58 in)

**Height from floor to center of active imaging area**

- Minimum height 400 mm (15.75 in)
- Maximum height 1900 mm (74.8 in)
- Bucky vertical motion 1500 mm (59.06 in)
- Surface plane - film distance 44 mm (1.73 in)
- Radiation absorption < 0.8 mm Al equivalent
- Automatic exposure control 3-field solid state sensors
- Scatter radiation grid 150/180 cm option (59.06/70.87 in)

**SYSTEM ACCESSORIES**

- Compression band
- Hand grips for table
- Hands support for wall stand

- Lateral cassette holder 24 x 30
- Lateral cassette holder 35 x 43
- Vacudap 2004 (external dose area meter)

**INSTALLATION DATA**

- Line voltage 3-phase, 480 v 60 Hz  
(additional transformer required for 80 kW generator below 480 v)  
Automatic line compensation  $\pm 10\%$
- Power consumption 105 kVA (Gen 64 kW);  
120 kVA (Gen 80 kW)
- Radiographic Table Single phase 110 V~  
60 Hz
- Ceiling height 2.60 - 2.80 m (102.36 -  
110.24 in)  
(for normal use)

**Ambient conditions (operation)**

- Temperature range +15° C to +30° C
- Storage/Transport temperature -20° C to +70° C
- Relative humidity (no condensing) 30 % to 75 %
- Atmospheric pressure 700 hPa to 1060 hPa

**PRODUCT WEIGHTS**

- Patient table: non elevating: 190 kg (418.88 lbs)
- Patient table: elevating: 280 kg (617.29 lbs)
- Floor mounted tubestand: 345 kg (760.59 lbs)
- Wall stand: 145 kg (319.67 lbs)

## GENERATORS

Generator model	SHF 345 (CR only)	SHF 545	SHF 645	SHF 845
Input power	3 Phase 480			
Max. power (kW)	32	50	64	80
Max. mA	400	640	640	800
Power output @ 0.1s		640 mA @ 78 kVp 500 mA @ 100 kVp 400 mA @ 125 kVp 320 mA @ 150 kVp	640 mA @ 80 kVp 640 mA @ 100 kVp 500 mA @ 128 kVp 400 mA @ 150 kVp	800 mA @ 80 kVp 800 mA @ 100 kVp 640 mA @ 125 kVp 500 mA @ 150 kVp
Compatible X-ray Tubes	All	All	E7252X, E7254FX, E7869X	E7254FX, E7869X
Range of radiographic parameters				
mA	From 10 mA to 800 mA through the following mA stations: 10, 12.5, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800. (Depending on the Generator model)			
mAs	Product of mA x time values from 0.1 mAs to 500 mAs			
ms	From 1 to 10000 milliseconds through the following time stations: 1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000. 6400, 8000 and 10000.			
AEC (Automatic Exposure Control)	mAs: 0.1 mAs to 500 mAs exposure time: Nominal shortest irradiation time = 1 ms			

## X-RAY TUBES

Housing	Focal spot	Target angle	Heat capacity (kHU)	Anode speed
Toshiba E7884X	0.6 – 1.2	12°	300	Low
Toshiba E7252X	0.6 – 1.2	12°	300	High/Low
Toshiba E7254FX	0.6 – 1.2	12°	400	High/Low
Toshiba E7869X	0.6 – 1.2	12°	600	High/Low

## Why Agfa HealthCare?

Agfa HealthCare is a global leader in the fast growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions. These specialized solutions integrate IT and imaging systems for Radiology, Cardiology, Mammography and Orthopaedics. Agfa HealthCare's enterprise-wide IT platform integrates all administrative and clinical data within a healthcare facility and is designed to match the unique needs of specific healthcare professionals.

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Published by

Agfa HealthCare Corp.

10 South Academy Street

Greenville, SC 29601 USA

5SJ8D US 00201108